

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (original): An expression cassette capable of directing heterologous protein expression in plant roots, comprising

a) nucleotides encoding MsPRP2 promoter or a fragment thereof, said promoter or fragment comprising a portion of SEQ ID NO : 1; and

b) nucleotides comprising a gene for a heterologous protein, operably linked to the MsPRP2 nucleotides.

Claim 2 (original): An expression cassette capable of directing heterologous protein expression in plant roots, comprising

a) nucleotides encoding a promoter of MsPRP2 or a fragment thereof;

b) optionally nucleotides encoding a ribosomal binding site;

c) optionally nucleotides encoding a secretion signal; and

d) nucleotides encoding a heterologous protein, said protein nucleotides being operably linked to the MsPRP2 promoter nucleotides.

Claim 3 (original): The expression cassette of claim 1 further comprising nucleotides encoding transcription factor Alfinl, the Alfinl nucleotides being operably linked to another promoter such that the other promoter causes the transcription factor Alfinl to be overexpressed.

Claim 4 (currently amended): A plant transfected with the expression cassette of claim 1, ~~2 or 3~~.

Claim 5 (currently amended): A plant cell culture transfected with the expression cassette of claim 1, ~~2, or 3~~.

Claim 6 (original): A method of producing a protein recombinantly in plant cells, the method comprising:

- a. growing plant cells which have been transfected with an expression cassette comprising:
 - i. nucleotides encoding a promoter of MsPRP2 or a fragment thereof; and
 - ii. nucleotides encoding the protein, said protein nucleotides being operably linked to the MsPRP2 promoter nucleotides; and
- b. growing the transformed cells, during which the transformed cells produce the protein.

Claim 7 (original): A method of producing a secreted protein from plant cells, the method comprising:

- a. growing plant cells which have been transfected with an expression cassette comprising:
 - i. nucleotides encoding a promoter of MsPRP2 or a fragment thereof ;
 - ii. nucleotides encoding a secretion signal which are downstream from the MsPRP2 promoter or fragment thereof ; and
 - iii. iii. nucleotides encoding the protein, said protein nucleotides being operably linked to the MsPRP2 promoter nucleotides; and
- b. growing the transformed cells, during which the transformed cells produce the protein.

Claim 8 (original): Seeds for plants producing a heterologous protein in its roots, the seeds comprising transgenic plant cells which have been transformed with nucleotides encoding a promoter of MsPRP2 or a fragment thereof, nucleotides encoding the protein, and optionally a

plant secretion signal, the protein nucleotides being operably linked to the MsPRP2 promoter nucleotides and the secretion signal.

Claim 9 (original): A method of bioremediating a field, the method comprising planting the transgenic seeds of claim 8 with or without the secretion signal.